

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 06-093114

(43)Date of publication of application : 05.04.1994

(51)Int.CI.

C08J 5/18
C25B 13/08
H01M 8/02
H01M 8/10
// C08G 65/48
C08L 71/10

(21)Application number : 05-142226

(71)Applicant : HOECHST AG

(22)Date of filing : 14.06.1993

(72)Inventor : HELMER-METZMANN FREDDY
OSAN FRANK
SCHNELLER ARNOLD
RITTER HELMUT
LEDJEFF KONSTANTIN
NOLTE ROLAND
THORWIRTH RALF

(30)Priority

Priority number : 92 4219412
92 4242692

Priority date : 13.06.1992
17.12.1992

Priority country : DE

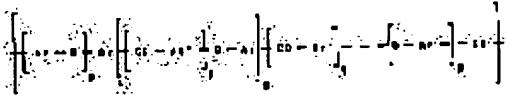
DE

(54) POLYMER ELECTROLYTE MEMBRANE AND PREPARATION THEREOF

(57)Abstract:

PURPOSE: To obtain the subject membrane suitable for using as polymer solid electrolyte, having sufficient chemical stability by sulfonating the specified aromatic polyether ketone, isolating the obtained sulfonic acid to dissolve in an org. solvent, and transforming the soln. into a film.

CONSTITUTION: The membrane is prepared by sulfonating the aromatic polyether ketone of the formula (where Ar is phenylene ring having p- and/or m-bonds; Ar' is phenylene, naphthylene, biphenylene or the like; X, N and M are each 0 or 1; Y is 0-3; P is 1-4), converting at least 5% of the sulfo groups in the sulfonic acid into sulfonyl chloride groups, reacting the groups with an amine- contg. a crosslinkable substituent or a further functional group to convert 5-25% of the original sulfonic groups into sulfonamide groups, then hydrolyzing the unreacted sulfonyl chloride groups, isolating the obtained aromatic sulfonamide and dissolving in an org. solvent, processing the soln. to a film, and crosslinking the crosslinkable substituents in the prescribed film.



LEGAL STATUS

[Date of request for examination] 26.05.2000

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the
examiner's decision of rejection or application
converted registration]

[Date of final disposal for application]

[Patent number] 3342106

[Date of registration] 23.08.2002

[Number of appeal against examiner's decision of
rejection]

[Date of requesting appeal against examiner's
decision of rejection]

[Date of extinction of right]

Copyright (C); 1998,2003 Japan Patent Office